TOSHIBA

Leading Innovation

Symbio™

Media Box and Blu-ray Disc™ Player User's Guide: BDX5400KU

If you need assistance:

- Toshiba's Support Web site
  support.toshiba.com

For more information see "Troubleshooting" on **page 36** in this guide

Owner's Record

The model number and serial number are on the back and underside of your player. Print out this page and write these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this equipment.

Model name _

Serial number _

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SAFETY PRECAUTIONS

The rating plate and the safety caution are on the rear of the unit.

DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

WARNING:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC POWER OUTLET, THEN FULLY INSERT.

The lightning flash with an arrowhead symbol, within the equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this User’s Guide.

CAUTION: This device employs a Laser System.

To ensure proper use of this product, please read this User’s Guide carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible and invisible laser radiation when open and interlocks defeated.
DO NOT STARE INTO BEAM

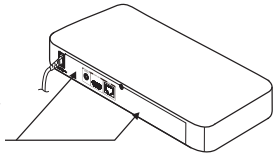
CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

The symbol for Class II (Double Insulation)

Warning:
- The main plug is used as disconnect device and it should be located in such a manner that it can be easily unplugged in case the product requires service. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquid, such as vases, shall be placed on the apparatus.
- Always leave a space of at least 4 (four) inches around the apparatus. The slots and openings are provided to protect the apparatus from overheating and to help maintain reliable operation.
- Keep the product away from direct sunlight, extreme cold, or heat sources such as a heater. This may reduce the life of the product.

Location of the required label

The rating plate and the safety caution are on the rear of the unit.



Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

ADDITIONAL SAFETY INSTRUCTIONS

14. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
15. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
16. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
17. Do not place anything on top of this unit.
18. Never block or cover the slots or openings in the unit. Never place the unit:
    - on a bed, sofa, rug or similar surface;
    - too close to drapes, curtains, or walls; or
    - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

    The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
19. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
20. If the apparatus should emit smoke or an unusual odor, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
21. During thunderstorms, do not touch the connecting cables or the apparatus.
22. Warning: To prevent spread of fire, keep candles or other open flames away from this product at all times.

3D VIEWING PRECAUTIONS

I. Important Safety Instructions for 3D Viewing

- If you or any viewer experiences the following symptoms or any other discomfort from viewing 3D video images, stop viewing and contact your health care provider: Convulsions, Eye or muscle twitching, Loss of awareness, Altered vision, Involuntary movements, Disorientation, Eye Strain, Nausea/Vomiting, Dizziness, Headaches, or Fatigue.
- If you feel eye fatigue or other discomfort from viewing 3D video images, stop viewing and take a rest until the condition is eliminated.
- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above. Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.
- Avoid use of the 3D function when under the influence of alcohol.
- Watching the screen while sitting too close for an extended period of time may cause eye strain. Consult your display manual to determine the ideal viewing distance.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers. Therefore, to avoid injury do not place your player or display near open stairwells, balconies, or wires and do not sit near objects that could be broken if accidentally hit.
- Carefully read instructions provided with your display and/or 3D glasses before 3D viewing.

II. 3D Performance Issues

- This product is designed to playback Blu-ray™ Discs that comply with the 3D specifications of Blu-ray Disc™ Association. It is not compatible with other 3D specifications.
- 3D capable display, 3D eyewear and High Speed HDMI™ cable (all sold separately) required for playback and viewing 3D content.
- If you route your signal through an AV receiver or other video distribution device they must be 3D capable to support 3D viewing. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device.
- Because the Blu-ray™ format and 3D specifications use new technologies, certain disc, content, connection and other compatibility and/or performance issues are possible. If you experience such issues, please refer to support.toshiba.com for information on the availability of firmware updates that may resolve your problem, or contact Toshiba Customer Solutions.

Blu-ray 3D™

- Viewing of 3D content requires compatible 3D glasses, compatible 3D display, compatible 3D playback device or 3D source and/or 3D capable HDMI™ cable (all sold separately).
- Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.
- BD Live™ requires connection of a USB drive of at least 1 GB (sold separately) to USB port. For models without built-in Wi-Fi®, BD Live™ is only supported via Ethernet so when using single USB port for Internet access, BD Live will not be available. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband Internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth. Internet services are available only in the United States.
- While watching the 3D video, all analog component and composite signals are blocked automatically.
- All 3D signals are output only, using an HDMI™ cable through the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you cannot change the resolution to your preference.
- You must use a high-speed HDMI™ cable for proper output of the 3D signal.
- You cannot use this product for switching a 2D content to 3D.

USA

Federal Communications Commission Statement

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation

Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

Wireless Radio

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible. The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology. If this device is going to be operated in 5.15-5.25GHz frequency range, then it is restricted to an indoor environment only.

Important: *Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.*

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

PRECAUTIONS

Notes on handling

- When shipping the unit, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory. Take care not to give it a shock or shake when carrying.
- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with this unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
- When the unit is not in use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

Notes on locating

Place the unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. The loaded disc may come off the proper position and cause damage to the unit.

When you place this unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

Do not use this unit in places which are extremely hot, cold, dusty or humid.

Do not restrict the air flow of this unit by placing it somewhere with poor air flow, by covering it with a cloth, or by placing it on bedding or carpeting.

Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Notes on cleaning

Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinners and benzene, as they may damage the surface of the unit.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

Inspection and Maintenance

This unit is a high technology, precision device. If the optical pick-up lens and disc drive parts become dirty or worn down, the picture quality may be reduced. To avoid reduction in picture quality, it is recommended that regular inspection and maintenance (cleaning or parts replacement) be performed every 1,000 hours of use. For further details, contact your nearest consumer electronics dealer.

Notes on moisture condensation

Moisture condensation damages the Symbio™ Media Box and Blu-ray Disc™ Player. Please read the following carefully:

- Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day.
- Drops of water form on the outside of the glass.
- In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the unit.

Moisture condensation occurs during the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the player in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the player in a humid place.

Do not use the Symbio™ Media Box and Blu-ray Disc™ Player when moisture condensation may occur.

If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.

On Safety

Do not handle the AC power cord with wet hands and do not put your fingers or objects into the unit.
When connecting or disconnecting the AC power cord, grip the plug and not the cord itself. Pulling the cord may damage it and create a hazard.
When you are not going to use the unit for a long period of time, disconnect the AC power cord.

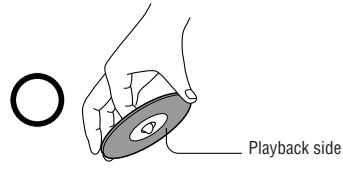
On Recycling

This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

NOTES ON DISCS

On handling discs

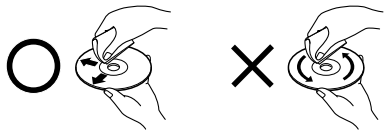
Do not touch the playback side of the disc.



Do not attach paper or tape to discs.

On cleaning discs

Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

On storing discs

Do not store discs in a place subject to direct sunlight or near heat sources.
Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Trademarks

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ActiveX is a trademark of Microsoft Corporation.

AVCHD Related Logos are trademarks of Panasonic Corporation and Sony Corporation.

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dts-HD Master Audio Essential

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio | Essential is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

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Java POWERED

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Introduction

Safety icons

This guide contains safety instructions that must be observed to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and icons highlight these instructions as follows:

⚠ DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.
NOTE	Provides important information.

Package contents

- Remote control (SE-R0431) with batteries (1 set of 2 AAA)
- Quick Start Guide
- Warranty information

Feature highlights

High-Definition

Watch high-definition content disc with HDTV (High Definition Television). Connect it through a high speed HDMI™ cable. You can enjoy excellent picture quality up to 1080p resolution with the frame rate of 24 frames per second with progressive scan output.

BD-Live™

Connect this player to the Internet to access a variety of up-to-date content (i.e. refreshed previews and exclusive special features).

Blu-ray 3D™

This product can play 3D content, using an HDMI™ cable. To implement the 3D effect, connect a 3D device (3D-compliant AV receiver, 3D-compliant TV) to the product using an HDMI™ cable, and play the 3D content while wearing 3D vision glasses.

Blu-ray Disc™ Java

Blu-ray Disc™ Java (BD-J) Application the BD-ROM format supports Java for interactive functions. “BD-J” offers content providers almost unlimited functionality when creating interactive BD-ROM titles.

DVD Upconversion for enhanced picture quality

Your current DVD will look even better than before thanks to video upconversion. Upconversion will increase the resolution of a standard definition DVD to near high definition up to 1080p over an HDMI™ connection. The picture will be less jagged and more realistic for a near high-definition experience.

Enjoy your content on different kinds of media
Full backwards compatibility with Blu-ray Disc™, DVD and CD ensures that you can continue to enjoy your current audio-video collection.
Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media™ Audio music files.

PIP (Picture-In-Picture)
Some Blu-ray™ videos have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **PIP** on the remote whenever the scene contains the secondary video.

Pop up menu
Some Blu-ray™ videos have pop-up menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting the playback. You can call up the pop-up menu by pressing **POP UP/ MENU** or **TOP MENU** on the remote. Contents in the pop-up menu vary depending on the disc.

Playing back AVCHD™ files
This player supports playback of AVCHD™ format files (new format for high definition video camcorders) recorded on disc. Your high definition personal archive is playable in HD quality.

x.v.Color®
This player supports playback of video content on discs recorded with "x.v.Color®" technology. To watch this video content with the "x.v.Color®", a TV or other display device supporting both video image reproduction using the "x.v.Color®" standard and capable of manually switching its color setting is required. Refer to the User's Guide of your display device for further information.

Wi-Fi CERTIFIED®
The Wi-Fi CERTIFIED® logo is an assurance that Wi-Fi® Alliance has tested a product in numerous configurations and with a diverse sampling of other devices to ensure compatibility with other Wi-Fi CERTIFIED® equipment that operates in the same frequency band.

Easy and simple connection to your HDTV via HDMI™:
Connect this player to your HDTV with one single HDMI™ (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI™ Cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality.

Media box capabilities:

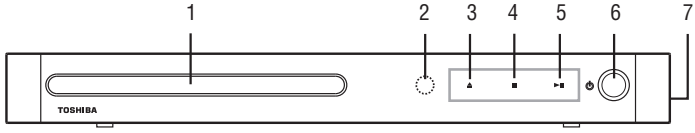
- Open Browser - with HTML5 video and audio codecs allow you to explore the web, search for, bookmark, and browse your favorite sites to enjoy the content you want, with simple, intuitive navigation.
- ePortal page - is easy to navigate and provides graphical access to a wide variety of services.
- Remote Server Access - provides access to new apps immediately as they become available.
- Built-in Wi-Fi® and Miracast™ - includes peer-to-peer wireless technologies to allow direct wireless connection between the player and Miracast™ certified mobile devices.
- MediaShare - provides a simple graphic interface to quickly access and share videos, music, and image files across your home network and the other connected devices through the My Videos, My Photos, and My Music icons on the ePortal page.
- Media Apps & Services - connects you to entertainment apps and to family and friends.

NOTE

Apps available through the player may be changed or removed at any time. Not all operating system apps may be compatible with the player. Services depicted in the document and provided through the player may not be available to you in your region. Please check your individual device for app compatibility.

Symbio™ Media Box and Blu-ray Disc™ Player controls

Front panel

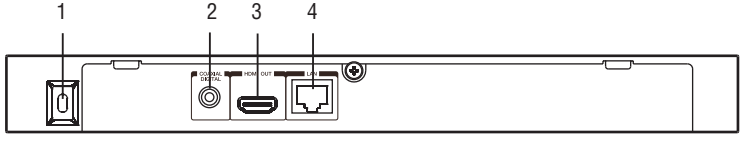


(Sample Illustration) Front panel controls

Item:	*Description:*	*Function:*
1	Disc tray	Loads a disc into the disc drive.
2	IR Sensor	Receives the IR signal from the remote control.
3	⏏	Opens or closes the disc tray.
4	■	Stops playback.
5	▶II	Playback/pause.
6	⏻ POWER	Turns the power on (indicator grows green) or restores the unit to the standby mode (indicator is off).
7	USB jack	Connects a USB device.

NOTE The IR sensor is located near the ⏏, ■, ▶II indicators. These indicators will go off briefly after power on. To turn on the indicators again, simply touch area near the buttons and they will light up.

Back panel



(Sample Illustration) Back panel connections

Item:	*Description:*	*Function:*
1	AC power cord	Connects to a standard AC outlet.
2	COAXIAL DIGITAL jack	Outputs digital audio signals when connecting the coaxial digital cable.
3	HDMI OUT jack	Outputs video/audio signals to a connected TV, monitor or AV receiver/amplifier. Connects to a TV, monitor or AV receiver/amplifier equipped with HDMI™ input.
4	LAN jack	Connects to network capable external devices.

Remote control buttons

Only the buttons used to operate the player are described in this section. For the HDMI™ CEC Control functions, see "HDMI™ CEC Control" **on page 26**.

⏏ OPEN/CLOSE
• Opens/Closes the disc tray

Number Buttons
• Enters track/chapter title numbers/ password numbers directly

GOTO
• Accesses a title, chapter, track or playing time

Clear
• Clears an entry, bookmark, and/or program you have set

◄◄ REV/►► FWD
• Fast reverse or fast forwards playback

►II PLAY/PAUSE
• Starts or pauses playback

HOME
• Displays the ePortal Home Screen

SETTING
• Displays the setup screen

EXIT
• Exits the current menu

STEP/SLOW
• Advances the picture frame by frame during pause mode
• Advances in a slow forward speed during normal playback

PROGRAM
• Accesses program list

DIGEST
• Accesses JPEG thumbnail view during playback

ZOOM
• Zooms out/in

BOOKMARK
• Bookmarks at any point during playback.

SUB (Subtitle)
• Displays subtitles; press repeatedly to select different subtitles available in your disc

REPEAT A-B
• Repeats from A to B

REMOTE SIGNAL EMITTER
• Point remote control to the sensor on the front panel

⏻ POWER
• Turns the unit to ON or standby mode

OSC
• Accesses On Screen Control menu

TOP MENU
• Displays the disc title during playback

PIP (Picture in Picture)
• Switches on or off the secondary video

POP UP/MENU
• Displays a menu included on some Blu-ray Disc™/DVD video discs

SKIP ⏮/⏭
• Skips to previous/next chapter/ title/ track

■ STOP
• Stops playback

◄/►/▲/▼
• Moves within on-screen menus to select or adjust programming options.
• Press ◄/► during JPEG playback to rotate the current photo track, but the JPEG playback will be paused.

OK
• Selects or confirms the highlighted items on screen

RETURN
• Returns to previous menu

NETFLIX
• Launches the Netflix® application on-screen.

AUDIO
• Selects the sound stream; press repeatedly to select different audio streams available in your disc.

2nd. AUDIO
• Switches the secondary audio of secondary video (PIP) to on/off.

ANGLE
• Switches the camera angle during playback

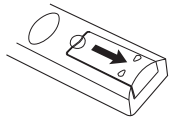
REPEAT
• Selects various repeat modes

DISPLAY
• Displays operating status

Installing the batteries

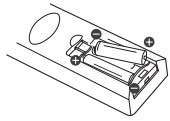
Install the batteries (AAAx2), matching the polarity indicated inside battery compartment of the remote control.

1 Slide the battery cover down.



(Sample Illustration) Remote control - Opening the battery cover

2 Insert two AAA batteries.
Make sure to match the polarity marks (+ / -) on the batteries to the marks indicated in the battery compartment.



(Sample Illustration) Remote control - inserting the batteries

3 Replace the battery cover.

CAUTION Do not expose batteries to excessive heat such as sunshine, fire, etc.

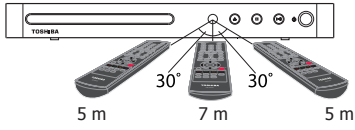
NOTE

Dispose of batteries in a designated disposal area.
Always consider the environment when disposing of batteries.
Always follow applicable laws and regulations.
If the remote does not operate correctly, or if the operating range is reduced, replace the batteries.
Always replace both batteries with new ones. Never mix battery types or use new and used batteries together.
Always remove batteries from the remote if they are dead or if the remote control is not to be used for an extended period of time.
This prevents battery acid from leaking into the battery compartment.

Using the remote control

For optimum performance, aim the remote control directly at the player and make sure there are no obstructions between the remote control and the player. The maximum operable ranges from the unit are as follows.

- Line of sight: approx. 7 m
- Either side of the centre: approx. 5 m within 30°
- Above: approx. 5 m within 30°
- Below: approx. 5 m within 30°



(Sample Illustration) Remote control effective range

CAUTION

Do not expose the remote sensor to a strong light source such as direct sunlight or other illumination. This can damage the sensor resulting in the inability to operate the player via the remote control.
Do not drop or expose the remote control to electric shock.
Do not expose the remote control excessively hot or humid places to avoid moisture condensation.
Do not spill water or place anything wet on the remote control.
Do not open the remote control unit (other than the battery door).
If the remote control is not going to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage corrosion.

NOTE

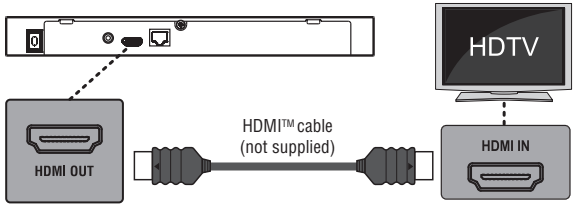
Direct the remote control at the remote sensor of Symbio™ Media Box and Blu-ray Disc™ player.
When using the remote control, press the buttons at intervals of approximately 1 second to ensure the correct mode of operation.

Symbio™ Media Box and Blu-ray Disc™ Player connections

It is important to connect the player to the Internet and AV devices first, before connecting the player to AC power.

Connecting to a TV

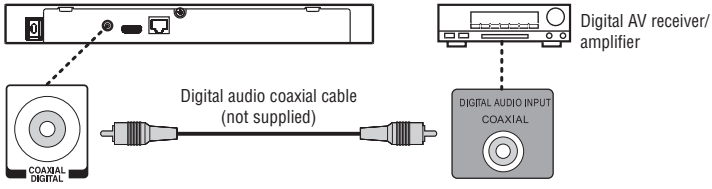
Connect a HDMI™ cable from the HDMI™ output jack on this player to the HDMI™ input jack on the TV. An HDMI™ cable carries both video and audio signals. If you wish to use TV speakers, you do not need to make an additional audio connection.



(Sample Illustration) Connecting to a TV - HDMI™ cable

Connecting to the digital AV receiver/amplifier

Route the sound from this player to the AV receiver/amplifier/sound system to enhance audio output. Connect a coaxial cable from the COAXIAL jack on this player to the COAXIAL jack on the device.



(Sample Illustration) Connecting to a digital AV receiver/amplifier

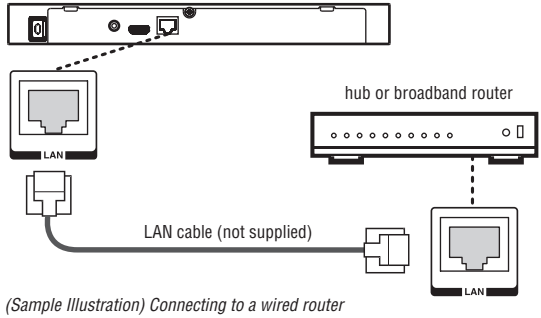
Connecting to your home network

Your Symbio™ Media Box and Blu-ray Disc™ Player can be connected to your home network:

- Using a wired network provides the best performance because the attached device and player are connected directly to the network and are not subject to radio frequency interference.
- To use a wireless connection, you can connect through the built-in wireless device and a wireless access point or router.

Connecting via wired router

Connect the network cable from the LAN jack on the player to the LAN jack on the network system's hub or broadband router.



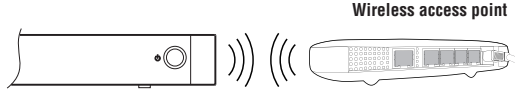
(Sample Illustration) Connecting to a wired router

NOTE

Do not connect a modular phone cable to the LAN jack.
Because there are various connection configurations, follow the instructions from your telecommunication carrier or Internet service provider.

Connecting via the built-in Wi-Fi® device and a wireless access point or router

Your Media Box and Blu-ray Disc™ player has an integrated Wi-Fi® device and antenna. No physical connection to the wireless router is necessary.



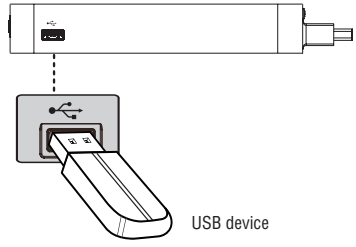
(Sample Illustration) Connecting to a wired router

1. Configure your player to access the wireless access point or router.
2. The network configuration and connection method may vary depending on the equipment in use and the network environment. Your Media Box and Blu-ray Disc™ player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11a/b/g/n standards. For the best wireless performance, we recommend using an IEEE 802.11n Wi-Fi® CERTIFIED network (access point or wireless router).

For detailed connection instructions for your Symbio™ Media Box and Blu-ray Disc™ player, see "Connecting to your home network" on **page 15**.

Connecting USB device

Connect the USB device to the right side of the player. The USB jack supports USB devices and USB Hubs.
A USB device provides an additional memory to software upgrade and enjoy BD-Live™ bonus content. You can also enjoy playing back MP3/JPEG/MPEG4 files stored on the USB device.



(Sample Illustration) Connecting a USB device

NOTE

To enjoy BD-Live™ bonus content, as your local storage, use **a 1 GB or larger USB device**.
For some Blu-ray™ discs with BD-Live™ feature, you may need to plug in the USB device before loading the disc. Otherwise, the disc may not play.
TOSHIBA does not guarantee 100% compatibility with all USB devices.
Internet access is required for BD-Live™ to download bonus content.

Connecting Power

Connect the AC power cable to the electrical wall outlet. The player can now be set up for use.

CAUTION

Before connecting the AC power cord, ensure you have completed all other connections.
Ensure that the power supply voltage corresponds to the voltage printed on the back of the unit or your player may be damaged.
The type plate is located on the back of the unit.

Blu-ray Disc™ playback

Before you play a disc in the player, read the following information.

NOTE

Cinavia™ Notice
This product uses Cinavia™ technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.
More information about Cinavia™ technology is provided at the Cinavia™ Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia™ by mail, send a postcard with your mailing address to: Cinavia™ Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

Disc and file playback

This player is compatible with the following discs/files.
To play a disc/file, make sure that it meets the requirements for region codes and color systems as described below. You can play discs that have the following logos.

NOTE

Other disc types are not guaranteed to play back.

Logos:	*Playable discs:*
Blu-ray 3D™	Blu-ray 3D™ disc BD-ROM Ver 2.4.1 (BD9 Disable)
Blu-ray Disc	Blu-ray Disc™-Video BD-ROM Ver 2.0 - Profile1.1 (True BD Player and PinP, Virtual File System Support) BD-R Ver 1.1/1.2/1.3 - BD-ROM mode (BDMV Recording) BD-RE Ver 2.1 - BD-ROM mode (BDMV Recording)
DVD VIDEO	DVD-ROM (single/dual layer)
DVD RW	DVD-RW (single layer at finalized disc)
DVD R	DVD-R (single/dual layer at finalized disc)
COMPACT disc DIGITAL AUDIO	CD-DA (audio CD)
COMPACT disc DIGITAL AUDIO ReWritable / COMPACT disc ReWritable	CD-RW
COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc Recordable	CD-R
-	DTS®-CD

Playable files:	*Media:*
AVCHD™	DVD-RW/-R, USB
MP3	BD-RE/-R, DVD-RW/-R, CD-RW/-R, USB
Windows Media™ Audio	
JPEG	
MPEG2-PS/TS	
AVI	
ASF	
MKV	
MP4	

This player cannot play disc content that is protected by Windows Media™ Digital Rights Management (DRM).

Region codes

This player has been designed to play back Blu-ray™ video with region “A” and DVD-video with region “1” or “ALL.” You cannot play back Blu-ray™ video or DVD-video that are labeled for other regions. Look for the symbols on your Blu-ray™ video or DVD-video.
If these region symbols do not appear on your Blu-ray™ video or DVD-video, you cannot play back the disc in this player. The letter or number inside the globe refers to region of the world. A Blu-ray™ video or DVD-video labeled for a specific region can only be played back in the player with the same region code.

Blu-ray™ video

DVD-video

Color system

Blu-ray™ video and DVD-video are recorded in different color systems throughout the world.
The most common color system is NTSC (which is used primarily in the United States and Canada).

Setting up the player

Find the correct viewing input

1 Press the ⏻ button to turn on this product.
2 Turn on the TV and switch to the correct video-in input (refer to the TV user's manual for instructions on how to select the correct input).

Initial Setting

When you turn on this unit for the first time, or restore all settings to factory defaults, the system will prompt you to perform the initial setup.

1 Follow the on-screen instructions to customize the following settings to your preference:
- **OSD Language**
  For more information, please see the "Language Setting" section on **page 28**.
- **Resolution**
  For more information, please see the "Resolution" section on **page 30**.
- **Aspect ratio**
  For more information, please see "TV Screen" section on **page 30**.

2 After selecting the settings, press **OK** to confirm and exit.

SETTING menu

Press the **SETTING** button on the remote control to display the setup screen.
For more information, please see the "Customizing" on **page 25**.

ePortal Home

Press the **HOME** button on the remote control to display the ePortal Home screen when there is no disc playing or the player is in Stop mode.
For more information, please see the "Navigating the ePortal Menu" on **page 31**.

Basic playback

When you wish to view a disc, turn the TV on and select the video input connected to the Symbio™ Media Box and Blu-ray Disc™ Player.

1 Press the ⏻ button on the front panel or the remote control; your Symbio™ Media Box and Blu-ray Disc™ Player will turn on.
2 Turn the TV on and then select the input setting on the TV that matches the connection method you used to connect your player.
3 Press the ⏏ **OPEN/CLOSE** button on the remote control to open the disc tray.
4 Place a disc on the disc tray with the label facing up, and then press the ⏏ **OPEN/CLOSE** button to close the disc tray.
The disc loading time depends on the types of disc you are loading.
5 After loading a disc, the playback starts automatically.
6 If a Blu-ray™ Disc or DVD menu is displayed, use cursor buttons to select **PLAY**. Then, press the **OK** button to confirm.
7 To eject the disc, press the ⏏ **OPEN/CLOSE** button.

Pause playback

1 Press the ⏯ button to pause playback. The sound will be muted.
2 Press the ⏯ button to resume the playback.

Still Off

1 Press the ⏯ button to continue to playback when in still off mode.

Stop playback

1 Press the ■ **STOP** button once to go to resume mode, the TV screen will show the resume logo. Press the ►II button to resume playback from the point where playback is stopped.
2 Press the ■ **STOP** button twice to stop the playback completely and the setup screen appears. Use the ▲/▼ button to select BD/DVD, and press the **OK** button to begin playback from the beginning of the disc.
Not all Blu-ray™ Discs support the resume feature.

Fast Forward and Fast Reverse

1 Press the ►► button to fast forward through the disc. The fast forward speed changes based on how many times you pressed the button.
2 Press the ◄◄ button to fast reverse through the disc. The fast reverse speed changes based on how many times you pressed the button.
The speed will increase through the following sequence: 2X, 4X, 8X, 16X, 32X.
3 Press the ►II button to resume normal playback.

Instant Search and Instant Replay

1 During playback, press and hold the ►► button, you can search 30 seconds forward.
2 During playback, press and hold the ◄◄ button, you can instant replay the content from 10 seconds before.

Previous and Next

1 During playback, press the I◄◄ button to skip back to the beginning of the current chapter or track or the previous chapter or track.
2 Press the ►►I button during playback will allow you to skip the playback to next chapter or track.

Slow Forward

1 Press the **STEP/SLOW** button during normal playback. The slow forward speed is 1/16 in default.
2 To change slow forward speed, press the **STEP/SLOW** button repeatedly, and the slow forward speed will be changed in the following sequence: 1/16, 1/8, 1/4, 1/2, normal.
3 To exit slow forward mode and return to normal playback, press the ►II button.

Step Forward

Use this feature to help you to enjoy the video frame by frame.
1 Press the ►II button during normal playback, then playback will change to pause state.
2 Press the **STEP/SLOW** button repeatedly to advance the picture frame by frame.
3 Press the ►II button to resume normal playback.

Advanced Playback

GOTO

During playback,
1 Press the **GOTO** button to edit Title, Chapter, and Time.
2 Press the ◄/► button and **OK** on the remote control to select Title, Chapter, or Time.
3 Press the numeric buttons or ▲/▼ button and then press **OK**. The playback will skip to the desired location.
4 For Time Search, press the ▲/▼ button to select TT (Title) or CH (Chapter) time search.

TOP MENU

You may press the **TOP MENU** button at any time, and the Blu-ray Disc™ or DVD video disc playback will display the disc menu.

POP UP/MENU

During Blu-ray Disc™ playback, press the **POP UP/MENU** button to display the disc title, and the playback will not be stopped even if the menu is displayed on the screen.

RETURN

Press the **RETURN** button to return to the previous on-screen menu in the setup menu such as External Memory Information, Parental Control, etc.
During MP3/JPEG playback, press the **RETURN** button once, it will return back to Media Center page.

PROGRAM

During DVD/CD playback, you can press the **PROGRAM** button to edit the sequence of the playlist.

DIGEST

During playback of JPEG disc, press the **DIGEST** button to view a page of 12 thumbnail images.

1 Use the ◀/▶/▲/▼ buttons to select an image.

2 Press **OK** to view the selected image in full-screen and subsequent images will be displayed one after another automatically.

3 Press the ⏮/⏭ buttons to view the previous or next thumbnail screen.

ZOOM

Press the **ZOOM** button repeatedly to Zoom in/out playback in the video.
Zoom mode : Zoom 2x -> Zoom 3x -> Zoom 4x -> Zoom 1/2 -> Zoom 1/3 -> Zoom 1/4.

BOOKMARK

During playback, press the **BOOKMARK** button to add the bookmark; press and hold for a few seconds to display the list of bookmarks that were previously added on the screen, then you can press the **OK** button to select the bookmark or the **CLEAR** button to delete the bookmark.

SUB

Press this button repeatedly and the screen will display "**X/XX XXX**" or "**Off**". The "X" indicates the current number of this language; "XX" indicates the total number of subtitle languages on the disc; "XXX" indicates the language.
The number of available languages depends on the disc.

AUDIO

Press the **AUDIO** button on the remote control to select the audio streams that set within the Blu-ray™ or DVD disc.
The screen will display:
AUDIO: X / XX XXX XXXX

- "X" - The current audio stream number
- "XX" - The total number of audio streams
- "XXX" - Audio Language
- "XXXX" - Audio Technology

ANGLE

During playback, press this button to change the angle of the picture. The screen will display "**Angle X/X**."
The first "X" indicates the current number of angle, and the second "X" indicates total number of angles.
Not all Blu-ray™ or DVD has the multi-angle feature. The screen will take approximately 5 seconds to change.

REPEAT

Press the **REPEAT** button repeatedly to select different repeat modes.

- Blu-ray Disc™: Repeat Chapter and Title.
- DVD: Repeat Chapter, Title and All.
- CD-DA/JPEG/MP3: Repeat Track and All.

A-B

To play certain sections within the video or song, press the **A-B** button to set the start point. Then, press the **A-B** button again to set the end point and complete the setting. The selected section will be played repeatedly.

Press the **A-B** button the third time to cancel this function.

The end point cannot be set until 5 seconds of playback has elapsed from the start point.

Not all Blu-ray™ Discs support the repeat A-B feature.

DISPLAY

Press the **DISPLAY** button and the screen will display some information about disc, such as: Title number, Chapter number, Track number, Elapsed Time, Audio, Angle, and Subtitle languages. Press this button again to turn off the information display.

OSC

Press the **OSC** button to open the On Screen Control menu during playback. In this menu, you can access the playback-related control options.

The on screen control contains following items:

- **Title**: The title in current playback/titles in total. Select your desired title to play.
- **Chapter:** The chapter in the current playback/chapters in total. Select your desired chapter to playback.
- **Time:** View the elapsed/remaining playback time of title/chapter. Use the ▲/▼ button to view: the elapsed playback time of title, the remaining playback time of title, the elapsed playback time of chapter, and the remaining playback time of chapter.
- **Mode:** Selects playback mode among shuffle, random, and normal.
- **Audio:** The Blu-ray Disc™/DVD disc's soundtrack language. Use the ▲/▼ button to view the audio available in the disc and select your desired Audio type.
- **Angle:** The angle view of current playback/the angles in total. Use the ▲/▼ button to select your desired angle view.
- **Subtitle:** The Subtitle in current playback.
  Use the ▲/▼ button to view the subtitles available in the disc and select your desired subtitle type or turn it off.
- **Subtitle Style:** When you play the Blu-ray Disc™ or DVD disc and if it has an external subtitle, you will see it in OSC menu.
- **Secondary Video:** Turns On/Off the secondary video.
- **Secondary Audio:** Turns On/Off the secondary audio.
- **Bitrate:** Use the ▲/▼ button to select audio or video bitrate.
- **Still Off:** Closes the Still feature.
  For some Blu-ray Disc™ or DVD discs, a certain video picture will be frozen as a still picture during the process of playback to let the user has a better view of certain picture. To continue playback, select Still Off.
- **Instant Search:** Instant search 30 seconds forward.
- **Instant Replay:** Replays the content from 10 seconds before.

NOTE The specified operation for each item will vary with disc types. And some items are available only when the disc is supportable.

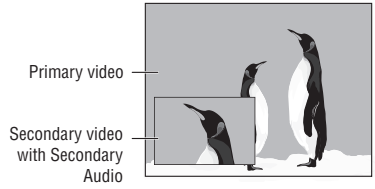
PIP

Some Blu-ray™ discs have the PIP function enabling you to display the secondary video in the primary video. You can call up the secondary video by pressing the PIP button when the scene contains the secondary video. See the documentation that came with the disc for playback instructions.

1 Turn on secondary video by pressing the **PIP** button.

2 Press the **2nd. AUDIO** button to turn on the audio for the secondary video (PIP).
In order to hear the secondary audio, the PIP feature on the disc must be turned on.

3 Press the **PIP** button again to turn off the secondary video.



(Sample Illustration) PIP view function

This function is not available when the primary video is played in Search, Slow-Motion, or Frame-by-Frame or Fast Forward/ Reverse mode.
To listen to the secondary audio, the digital audio output must be set to “Bitstream”, “Re-encode” or “PCM”. Otherwise, only the primary audio can be heard.

NOTE

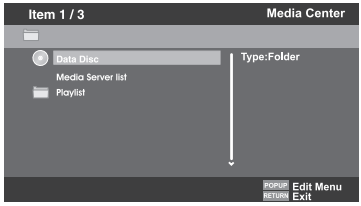
Not all the Blu-ray™ discs can support this function. Not all Blu-ray Discs™ contain content supported by the PIP feature.
High Definition PIP (Second Video) is not supported.

Playing MP3/JPEG/MPEG4 files

You can play MP3/JPEG/MPEG4 files that have been recorded on a disc or a USB device on the player.

1 Load a disc or insert a USB device that contains MP3/JPEG/MPEG4 files.

2 On the setup screen, press the ▲/▼ button to select Video, Music, or Photo, and then press **OK**.
The Media Center menu appears on the screen.



(Sample Illustration) Media Center menu

3 Press the ▲/▼ button to select **Data Disc** or **USB1**, and press **OK**.

4 Press the ▲/▼ button to select a file (or folder) and press **OK** or ▶II to start playback.
It should match the selection on the setup screen. (If you selected Video on the setup screen, you also should select Video here.)

NOTE

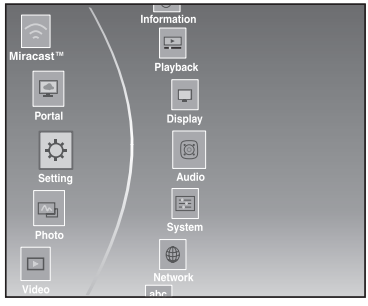
Not all media formats are supported.

Customizing

This section describes the various setting options of this Symbio™ Media Box and Blu-ray Disc™ Player.

If the setup option is greyed out, it means the setting cannot be changed at the current state.

1 Press the **SETTING** button in stop mode to display the setup screen.
2 Press **OK** to enter the Setting menu.
3 Use the ▲/▼ button to select an option and press **OK**.
4 Press the ◀ button or the **RETURN** button to return to the previous menu.



(Sample Illustration) General operations settings

NOTE You can also access your settings via the Settings icon on the ePortal.

Audio Setting

1 In the **Setting** menu, use the ▲/▼ button to select **Audio** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Use the ▲/▼ button to select the desired audio setting and press **OK**.
4 Press the ◀ button or the **RETURN** button to return to the previous menu.

SPDIF

When you connect an audio system to the COAXIAL DIGITAL output jack, the options are:

- **Bitstream:** Selects Bitstream output if your receiver SPDIF (Coaxial) IN supports Dolby® or DTS® or PCM audio signal.
- **PCM:** Selects PCM output if your receiver SPDIF (Coaxial) IN only supports PCM stereo audio signal.
- **Re-encode:** Selects Re-encode output if your receiver SPDIF (Coaxial) IN supports Dolby® or DTS® and you want to hear both PIP audio and the movie audio on Blu-ray™ video.
- **Off:** No audio will be output via COAXIAL DIGITAL output jack.

HDMI

When you connect an HDMI™ device to the HDMI OUT jack, the available options are:

- **Bitstream:** Selects Bitstream output if your receiver HDMI IN supports Dolby® or DTS® or PCM audio signal.
- **PCM:** Selects PCM output if your receiver HDMI IN only supports PCM audio signal.
- **Re-encode:** Selects Re-encode if your receiver's HDMI IN supports Dolby® or DTS® and you want to hear both PIP audio and movie audio on Blu-ray™ video.
- **Off:** No audio will be output via HDMI OUT jack.

Down_samp
Select the digital audio signal sampling frequency. (Only available on Coaxial)
- **48k:** For discs recorded at sampling rate of 48 kHz.
- **96k:** For discs recorded at sampling rate of 96 kHz.
- **192k:** For discs recorded at sampling rate of 192 kHz.

Dolby DRC
Select the Dynamic Range Control (DRC) mode which makes it available to listen to a movie at a low volume without losing sound clarity.
- **Off:** Non-dynamic range compress.
- **On:** Dynamic range compress.
- **Auto:** Adjust the DRC according to input audio.
  The setting of Auto is effective for Dolby® TrueHD.

Stereo Down Mix
Select whether to downmix the multi-channel audio into fewer channels.

- **Stereo:** Downmixes the multi-channel audio into two channel stereo. Choose when the unit is connected to equipment that does not support virtual surround function such as Dolby® Pro Logic.
- **Surround Encoded (LtRt):** Downmixes the multichannel audio into surround compatible stereo. Choose when the unit is connected to equipment that supports virtual surround function such as Dolby® Pro Logic.

System Setting

1 In the **Setting** menu, use the ▲/▼ button to select **System** and press **OK**.
2 Use the ▲/▼ button to select an option and press **OK**.
3 Press the ◀ button or the **RETURN** button to return to the previous menu.

Screen Saver
The screen saver helps protect the TV screen. You can turn on/off the screen saver mode.

- **On:** Sets the screen saver active after approximately 5 minutes without operation.
  - The unit will switch to standby mode if there is no operation after the screen saver is engaged for approximately 20 minutes.
- **Off:** Turns off the screen saver mode. The unit will not switch to standby mode automatically.

Disc Auto Play
Turns On or Off the disc automatic playback switching mode.
- **On:** The disc playback automatically after loading.
- **Off:** Turn off disc auto play mode.

CEC
This feature uses CEC (Consumer Electronics Control) technology and allows you to control Toshiba HDMI™ CEC compatible devices from the player's remote control via the HDMI™ connection.
- **On:** Turns on HDMI™ CEC features.
  With CEC on, pressing **SETTING, PLAY/PAUSE** button will power on the TV when the TV is in the standby mode. When you turn the TV off, this player will automatically turn off.
- **Off:** Disables HDMI™ CEC features.

Load Default
Resets all settings of the player to initial default state.
- Follow the instructions on the TV screen to confirm the default setting operation.

Deactivate Setting
To apply the deactivation, unplug the player after operating deactivation.

Upgrade
This option allows you to update your players software via a Disc, USB Storage or Network.

External Memory
The External Memory can be used in the BD-Live™ function. When you plug in the USB device, which has at least 1GB free space to play BD-Live™ function, the Blu-ray Disc™ system creates a directory named BUDA automatically.
Media Information will display the Free size.
- Press **OK** to select “Fmt buda”, the data in the BUDA folder will be cleared.

Network Setting

1 In the **Setting** menu, use the ▲/▼ button to select **Network** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Press the ◄ button or the **RETURN** button to return to the previous menu.

Internet Connection
Allows you to enable/disable the Internet connection.

Interface
This system setting allows you to choose the way to connect network via Ethernet or Wireless.

Connection Test
Selecting the Connection Test will cause the player to attempt to communicate with your home network and with a known Internet address. If both attempts are successful, your network connection should be configured correctly. If the player cannot connect to your home network or Internet the Connection test will fail. Possible causes of a failed Connection Test are, the Internet service may be unavailable or your security firewall is blocking access to the Internet.

IP Setting
- **Auto:** Auto obtain network information.
- **Manual:** Manual setup network information.

Wi-Fi Direct™
This allows you to configure a secured wireless network between the player and a Wi-Fi Direct™ compatible device (e.g. smartphone) without using an access point.
- **Enable:** Turns on the Wi-Fi Direct™ features.
- **Disable:** Disables the Wi-Fi Direct™ features.

Wi-Fi Direct™ Setting
To scan and connect a Wi-Fi Direct™ compatible device, e.g. smartphone.

Information
This displays all Network Information.

BD-Live™ Connection
- **Permitted:** During playback of BD-Live™ disc, the disc may automatically download all information from appointed network.
- **Partial Permitted:** During playback of BD-Live™ disc, the disc may automatically download partial of the information from appointed network.
- **Prohibited:** Disable downloading information from network.

Media Server Search
The Media Server Search function enables you to connect with other devices for resource sharing based on a network. See **Media Server Search** on **page 31** for details.

Language Setting

This setting allows you to choose the language for your on-screen menus and screens.

1 In the **Setting** menu, use the ▲/▼ button to select **Language** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Use the ▲/▼ button to select the preferred language.
4 Press the ◀ button or the **RETURN** button to return to the previous menu.

- **OSD**
  Selects the on-screen menu language.
- **Menu**
  Selects the disc menu language.
- **Audio**
  Selects the audio language of your preference.
- **Subtitle**
  Selects your preferred subtitle language.

Security Setting

1 In the **Setting** menu, use the ▲/▼ button to select **Security** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Press the ◀ button or the **RETURN** button to return to the previous menu.

Change password
Follow the instructions on the TV screen to change the password for locked discs and play restricted Blu-ray™ discs/DVDs.
1 Use the number buttons to enter the four digit old password. The default password is “0000”.
2 Enter the new password.
3 Enter the new password again to confirm.

If you forget the password, you can erase your current password by entering in the default password.

Parental Control
Restricts access to discs that are unsuitable for children. These discs must be recorded with rating.
1 Use the number buttons to enter the password.
2 Select a rating level, then press **OK**.

- **1 [Kid safe]** - Safe for kids
- **2 [G]** - All children and general guidance
- **3 [PG]** - Parental guidance
- **4 [PG-13]** - Parental guidance for children under 13
- **5 [PG-R]** - Parental guidance recommended
- **6 [R]** - Restricted viewing
- **7 [NC-17]** - No one 17 and under allowed
- **8 [Adult]** - Adult only

NOTE Rated discs above the level you set in [Parental Control] require a password to be entered. The ratings are country dependent. To allow all discs to play, select 'Off'.

Information Setting

1 In the **Setting** menu, use the ▲/▼ button to select **Information** and press **OK**.
2 The current Software Version, MAC Address and Netflix ESN will be displayed.
3 Press the ◀ button or the **RETURN** button to return to the previous menu.

Playback Setting

1 In the **Setting** menu, use the ▲/▼ button to select **Playback** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Use the ▲/▼ button to select On/Off, and press **OK** to confirm.
4 Press the ◀ button or the **RETURN** button to return to the previous menu.

Angle Mark

Some Blu-ray™ discs/DVDs contain the scenes recorded with multiple angles, which allow you to enjoy the videos with your desired angles, therefore the angle mark is displayed only when the Blu-ray Disc™/DVD disc is supportable for multi-angle and Angle Mark is set to ON.

- **On:** Displays the Angle Mark.
- **Off:** Hides the Angle Mark.

PIP Mark

The Picture -In- Picture (PIP) mode display two pictures on the TV screen at the same time, the full screen picture is called Main Window and the small inset window is called Sub Window. The PIP Mark is displayed when in PIP mode and PIP Mark is set to ON.

- **On:** Displays the PIP Mark.
- **Off:** Hides the PIP Mark.

Secondary Audio

- **On:** Displays the Secondary Audio.
- **Off:** Hides the Secondary Audio.

Last Memory

If you open the disc tray or switch this Symbio™ Media Box and Blu-ray Disc™ Player to standby state during normal playback, the player can memorize the end playing point, the player will start playback from the memorized point next time.

- **On:** Enables Last Memory feature.
- **Off:** Disables Last Memory feature.

NOTE Not all the Blu-ray™ discs can support this function.

Display Setting

These settings configure how the picture is displayed on the television or screen.

1 In the **Setting** menu, use the ▲/▼ button to select **Display** and press **OK**.
2 Press the ▲/▼ button to select an option and press **OK**.
3 Use the ▲/▼ button to select the desired option, and press **OK** to confirm.
4 Press the ◀ button or the **RETURN** button to return to the previous menu.

TV Screen
Select the screen format according to how you want the picture to appear on the TV.

- **16:9 Full:** For a disc with the aspect ratio of 4:3, the output video is stretched into 16:9 full screen.
- **16:9 Normal:** For a disc with the aspect ratio of 4:3, the output video is resized vertically to match what will be seen on the display.
- **4:3 Pan&Scan:** For standard TV, it displays a wide picture on the entire screen and cuts off the redundant portions.
- **4:3 Letterbox:** For standard TV, it displays a wide picture with two black borders on the top and bottom of 4:3 screen.

Resolution
Selects a video output resolution that is compatible with your TV display capability.

- **Auto:** Select the most suitable resolution according to the TV.
- **480i, 480p, 720p, 1080i, 1080p:** Select a video resolution setting that is best supported by the TV. See TV manual for details.

Color Space
Selects a predefined Colour space of picture: RGB, YCbCr, YCbCr422, Full RGB.

HDMI Deep Color
This feature is available only when the display device is connected by an HDMI™ cable, and when it supports Deep Color feature.

- **On:** Enables HDMI Deep Color.
- **Off:** Disables HDMI Deep Color.

HDMI 1080/24p
Movies are recorded on film at a rate of 24 pictures (frames) per second. Many of the movies on Blu-ray™ discs are placed on the discs at this frame rate. However, not all TVs can display 24 progressive frames/second of video. If the TV cannot display this frame rate, you need to turn off HDMI 1080/24p.

- **On:** Enables 1080/24p video resolution setting.
- **Off:** Disables 1080/24p video resolution setting.

Blu-ray 3D Mode
Select whether to play a Blu-ray Disc™ with 3D content in 3D Mode.

- **Auto:** The 3D Blu-ray Disc™ is played in 3D mode if your product detects a TV that supports it. It is played in 2D mode if your product detects a TV which can not support it.
- **Off:** The 3D Blu-ray Disc™ is played in 2D mode at all times. Select this option to view a picture without 3D effect or when a TV cannot support 3D Blu-ray™ discs.

Before using the 3D function, note the following:
Viewing 3D programming requires the following items that are not included with the player:
- 3D glasses
- Compatible 3D source
- 3D capable HDMI™ cable

NOTE

If appropriate mode and format are not selected, 3D image will not be correctly displayed.
There are individual difference in perception of 3D images.
When viewing 3D images, wear the 3D glasses.

Video Adjust

- **Brightness:** Press the ◀/▶ button to adjust the brightness of display, goes left means dark and right means bright.
- **Contrast:** Press the ◀/▶ button to adjust the contrast of display, goes left means low contrast and right means high contrast.
- **Hue:** Press the ◀/▶ button to adjust the Hue of display, goes left means low hue and right means high hue.
- **Saturation:** Press the ◀/▶ button to adjust the saturation of display, goes left means low Saturation and right means high saturation.

Sharpness

Selects the level of sharpness: High, Middle, Low.

Network functional description

Media Server Search

With this player connected to network, you can play video, music and photo files from the media server.

1. Connects this player to server network and set the Media Server Search to **Enable**.
   See **Network** on **page 28** for details.
2. Press the **SETTING** button to enter the setup screen and use the ▲/▼ button to select **Video**, **Music**, or **Photo**, and then press **OK**.
   The Media Center menu appears on the screen.
3. Press the ▲/▼ button to select **Media Server list**, and then press **OK**.
4. Press the ▲/▼ button to a kind of media (Photo, Music, Video) and press **OK**.
   It should match the selection on the setup screen. (If you selected Video on the setup screen, you also should select Video here.)
5. Press the ▲/▼ button to select a file (or folder) and press **OK** or ▶II button to start playback.

NOTE Not all media formats are supported.

Miracast™

This feature allows you to enjoy videos, music and photos on your Miracast™ compatible device (e.g. smartphone) by using a Wi-Fi Direct™ connection without using an access point. To use this feature:

1. Turn on your Miracast™ compatible device (e.g. smartphone) and set the Wi-Fi Direct™ to **On**.
2. Then configure the player:
   1) Enter the **Network** menu and set the **Wi-Fi Direct™** to **Enable**.
   2) Then enter the **Wi-Fi Direct™ Setting** to scan and and select your Miracast™ compatible device, then press OK. For more information, please see the "**Network**" section on **page 27**.
3. On your Miracast™ compatible device, search for the "**TOSHIBA BDPL**" from the list of discovered devices and select it. It may take the player and the Miracast™ compatible device a few seconds to connect.
4. After connecting successfully, you can now enjoy videos, music and photos on your Miracast™ compatible device from the unit.

NOTE

This player is a Miracast™ certified Wi-Fi Alliance® device; connection and/or compatibility issues with other Wi-Fi CERTIFIED Miracast™ devices are possible. Issues include, but not limited to:

- non-transfer of certain kind of data through the mirroring function of this player.
- connection errors due to functions of sending device.
- video and/or picture contents displayed on sending device may not be displayed as is through the player.
- depending on the Wi-Fi CERTIFIED Miracast™ devices, the connecting operation differs. Refer to device's user manual.
- you cannot use the Wi-Fi CERTIFIED Miracast™ technology and have access to the internet using a wireless network at the same time.

Navigating the ePortal Menu

A new ePortal page is easy to navigate and provides graphical access to a variety of services such as Apps, Open Browser, Videos, Photos, Music, Settings and others.

NOTE You need to configure your home network before using this feature. The apps available through the ePortal may be changed or removed at any time. Services depicted in this User's Guide and provided through the ePortal may not be available to you in your region.

To navigate the ePortal page:

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the Home screen.
2 Press the ▲/▼/◀/▶ (arrow) buttons to select the desired icon and press the **OK** button.
3 To close a menu, press the **EXIT** button.

ePortal Home Page

- Player Settings - customizes your player's options.
- Open Browser - access the Internet for searching, browsing, and bookmarking your favorite content.
- Disc - plays the disc that is loaded into the disc tray.
- My Videos - view your video content.
- My Photos - view your personal photos
- My Music - play and listen to your music.
- Settings - customizes the ePortal settings.

NOTE Some features require an always-on broadband Internet connection, firmware update and/or additional bandwidth dedicated to this product. Third party Internet services may change or be discontinued or restricted at any time. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party Internet services may require registration by a computer and/or payment of charges and membership. Not all services or content may be available on this product, in your country or in your language. Please see the User's Guide on support.toshiba.com.

Compatibility and/or performance issues are possible. Certain interactive features may not be supported due to compatibility, network settings or other conditions.

Open Browser

1 Use the ▲/▼/◀/▶ (arrow) buttons to select the **Open Browser** icon.
2 Press the **OK** button to enter Toshiba's home website.
3 Press the **DISPLAY** button on the remote control or the **TAB** key of USB keyboard to turn on/off the Open Browser menu bar. You can use the ◀/▶ button to select **Home, Search, History, Bookmark, Display, Tool** or **Exit** on the Open Browser menu bar and press the **OK** button.
4 Press the **RETURN** button on the remote control to exit and return to the ePortal Home page.

- Home - accesses the Toshiba's home website.
- Go to - inputs target web address.
- Search - inputs key words to search.
- History - refered web site page.
- Bookmark - adds current web site page as Favorite.
- Display - zooms in/out the current display screen.
- Tool - clears Cookies, History, Cache or Certification.
- Exit - exits and returns to the ePortal Home page.

The web browser on this device:

- may not support certain functions used in web pages.
- may not display web pages as intended, or may not function.
- does not support platform-dependent technologies such as ActiveX®.
- only supports preinstalled plug-ins.

- uses a single built-in font. Some text may not be displayed as intended.
- does not support downloading of files or fonts.
  In addition, some web pages may exceed the memory allotment of the web browser. The web browser will close when this happens.

Watching movies with CinemaNow®

This player enables you to use the following services provided by CinemaNow®. In order to use this service, you must set up a user name and password.

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **CinemaNow** icon, and then press the **OK** button to enter the CinemaNow® main menu.
3 If you don't have a CinemaNow® account yet, visit www.cinemanow.com/bbactivate to create your account.
4 Press the ◀/▶/▲/▼ buttons to select **ENDUSER LICENSE AGREEMENT** and then press the **OK** button.
5 Press **Accept**.
  The activation code is displayed on the TV screen.
6 Visit cinemanow.com/start and enter your user name and password.
  When the player is activated, you will move to the CinemaNow® Home page.
7 Press the ▲/▼ button to select **Store**, and then press the **OK** button.
8 Press the ◀/▶/▲/▼ buttons to select the desired title, and then press the **OK** button.
9 Press the ◀/▶ button to select **Rent** or **Buy**, and then press the **OK** button.
10 Press the ◀/▶ button to select **Submit Order**, and then press the **OK** button. If you wish to play any of the titles that were purchased, click **Play Now**.
11 Press the ◀ button to go to the previous menu.

Watching movies with Netflix®

To use the Netflix® service, connect this player to your network, and configure the network settings if they are not yet finished. In order to use this service, you must set up or use an existing account.

Launching Netflix® movie

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Netflix** icon, and then press **OK** to enter the Netflix® menu.

Creating Netflix® account

1 If you are not a Netflix® member: Select **no**.
2 Read the instructions displayed on the TV screen, and visit **http://www.netflix.com/toshiba** from your PC.
3 Sign up to create your account, then select "**I'm now a member**".
4 If you are a Netflix® member, select **yes**.
5 Enter a valid email address and password.

Preparing Instant Queue

To play streaming video via Netflix® service, Netflix® player needs to be activated. Read the instructions displayed on the TV screen. Sign in to your Netflix® account with your email address and password. Now you can view Netflix® streaming video. After having activated Netflix® player and prepared Instant Queue, movies and TV episodes in your Instant Queue appear on the TV screen. Select your desired one using the remote control of the player.

NOTE Resolution of video streamed from Netflix® varies depending on communication speed or bitrate of each content, etc.

Watching movies with YouTube®

This service enables you to use the following services provided by YouTube®.

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **YouTube** icon, and press **OK**.
3 Now you can select the video content you wish to watch.

Watching movies with VUDU™

To use the VUDU™ service, connect this player to your network, and configure the network settings if they are not yet finished. In order to use this service, you must set up or use an existing account.

Creating a VUDU™ account on your player

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Vudu HD Movies** or **Vudu Apps** icon, and press **OK**.
3 Follow the instructions to create an account; it will ask for an email address.
4 Enter YOUR email address using the software keyboard on the screen. VUDU™ will then display a message on the TV "**Sending you an email**".

Creating a VUDU™ account on your PC

1 VUDU™ will send you an email with a hyper-link; click on the link.
2 After clicking on the link, the VUDU™ page appears on your PC's browser then enter the e-mail and password for the account.
VUDU™ will then display a message "**Enabling your device to view movies. The email message on your TV screen will disappear when done**".
3 On your TV, you can now navigate to a VUDU™ movie, and 'buy' or 'rent' it.

Watching movies with Hulu Plus™

To use the Hulu Plus™ service, connect this player to your network, and configure the network settings if they are not yet finished. In order to use this service, you must set up or use an existing account.

Log in to Hulu Plus™ with your account

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Hulu Plus** icon, and press **OK**.
A message is displayed "**Are you already a Hulu Plus subscriber?**" on the screen.
3 Use the ▲/▼ button to select **Yes**, and then press the **OK** button to confirm.
4 Log in to Hulu Plus and enter your email address and password using the virtual keyboard, then use the ◀/▶/▲/▼ buttons to move the cursor to **Login** and press the **OK** button to confirm.

Creating a new Hulu Plus account on your PC

Go to **www.hulu.com/activate** and enter your activation code to create a new account.

Listening to music with Pandora®

To use the Pandora® service, connect this player to your network, and configure the network settings if they are not yet finished. In order to use this service, you must set up or use an existing account.

Using an existing Pandora® account

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Pandora** icon, and press **OK**.
3 Select **I have a Pandora account** from the option list.
4 Sign in with your account.

Creating a new account on the Symbio™ Media Box and Blu-ray™ Player

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Pandora** icon, and press **OK**.
3 Select **I am new to Pandora** from the option list.
You will be given an activation code
4 Use this activation code to generate a new account and link it to the player using a PC.

Creating a new Pandora® account on your PC

Visit **http://www.pandora.com/** to create a new account.

Browsing photos with Picasa™

To use the Picasa™ service, connect this player to your network, and configure the network settings if they are not yet finished. In order to use this service, you must set up or use an existing account.

Signing in with your account

To display photos in your web album on the screen, you need to sign in with your Picasa™ account.

1 Press the **HOME** button on the remote control or select **Portal** in the setup screen to display the ePortal Home.
2 Use the ◀/▶/▲/▼ buttons to select **Picasa** icon, and press **OK**.
3 Enter your user name using the virtual keyboard, and press the **OK** button while [OK] is selected on the screen.
4 Enter the password using the virtual keyboard, and press the **OK** button while [OK] is selected on the screen.
Your web album is displayed on the screen.

Creating a new Picasa™ account on your PC

Visit http://picasa.google.com/ to create a new account.

Troubleshooting

If you experience any of the following difficulties while using this unit, check the list below before consulting your nearest TOSHIBA dealer.

Problem:	***Solution:***
No reaction to the remote control.	Connect the product to the power outlet. Point the remote control at the product. Insert the batteries correctly. Insert new batteries in the remote control.
No video signal on the display device.	Turn on the TV. Set the TV to the correct external input. Select the correct video resolution. Set TV System of TV correctly
Incorrect or no audio / video signal on the amplifier/display device via HDMI™ cable.	If the unit is connected to the unauthorized display device with an HDMI™ cable, the audio/video signal may not be output. Ensure the amplifier/display devices setting match the Blu-ray Disc™ player.
No high-definition video signal on the TV.	Does the disc contain high-definition video? High-definition video is not available when the disc does not contain it. Does the TV support high-definition video? High-definition video is not available when the TV does not support it.
No audio signal from the loudspeakers of the audio system.	Turn on the audio system. Set the audio system to the correct external input. Increase the volume level of the audio system.
No 3D effectiveness.	Set Blu-ray 3D Mode to Auto. Connecting to a 3D TV. Playback a 3D disc. Wear 3D glasses.
Cannot play back a disc.	Make sure that the Blu-ray Disc™ player supports the disc. Make sure that the Blu-ray Disc™ player supports the region code of the DVD or Blu-ray Disc™. Clean the disc.
Cannot connect to the network.	Check that the LAN cable connection is properly made. Check that the broadband router and/or modem is correctly connected. Check the Network Connection Setting.

Glossary

Aspect ratio
Aspect ratio refers to the length to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high definition or wide TV is 16:9. The letterbox allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

AVCHD™
AVCHD™ is a new format for high definition video camcorders which can record and play high-resolution HD images.

AVI
Audio Video Interleave, known by its acronym AVI, is a multimedia container format. AVI files can contain both audio and video data in a file container that allows synchronous audio-with-video playback.

BD-Java™
With some Blu-ray Disc™ which support Java™ applications, you can enjoy the interactive functions such as games or interactive menus.

BD-Live™
BD-Live™ is a BD-video (BD-ROM version 2 Profile 2.0/Profile 1.1) which contains new functions (e.g. Internet connection), in addition to the function.

Blu-ray 3D™
Blu-ray 3D™ is a BD-video (BD-ROM version 3 Profile 5.0) which contains 3D view function, in addition to the BD-Live/BONUSVIEW function.

Blu-ray Disc™
Blu-ray Disc™ is a next generation optical video disc capable of storing five times more data than a conventional DVD. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sound, interactive menus and so on.

Chapter
Just as a book is split up into several chapters, a title on a Blu-ray Disc™-video or DVD-video is usually divided into chapters.

Digital Audio
Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels. Analogue sound can only be transmitted through two channels.

Dolby® Digital
The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multichannel audio.

Dolby® Digital Plus
Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

Dolby® TrueHD
Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

DTS®
DTS® is a multi-channel surround sound system. By connecting to DTS® decoder, you can enjoy movie dynamic and realistic sound like movie theater. DTS® surround sound technologies were developed by DTS®, Inc.

DTS-HD®
DTS-HD® is a lossless coding technology developed as an extension of the original DTS® Coherent Acoustics format. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

DTS-HD Master Audio™
A disc encoded with DTS-HD Master Audio delivers ALL of the information from the original master recording — bit-for-bit, it's identical to what the sound engineers laid down. Audio doesn't get any better than this.

HDCP
High-bandwidth Digital Content Protection. This is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorized copyright.)

HDMI™
High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers high quality picture and sound quality. HDMI is fully backward compatible with DVI. As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High bandwidth Digital Content Protection) will result in no Video or Audio output.

IP Address
A set of numbers which are assigned to devices participating in a computer network.

JPEG
A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognized by their file extension '.jpg' or '.jpeg'.

LAN (Local Area Network)
A group of linked devices in a company, school or home. Indicates the boundaries of a particular network.

Local storage
This storage area is used as destination for storing additional contents from BD-Live™ enabled Blu-ray Disc™-video.

MP3
A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

PCM
Pulse Code Modulation. A digital audio encoding system.

Region code
A system that allows discs to be played only in the region designated. This unit only plays discs that have compatible region codes. You can find the region code of your unit on the product label. Some discs are compatible with more than one region (or ALL regions).

Sampling Frequency
The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Title
A collection of chapters on Blu-ray Disc™-video or DVD-video.

Track
Audio CD use tracks to divide up the content of a disc. The Blu-ray Disc™-video or DVD-video equivalent is called a chapter. See also "Chapter".

Wi-Fi®
Wi-Fi or Wifi, is a mechanism for wirelessly connecting electronic devices.

Specifications

General:	
Signal system	NTSC
Power requirements	120V AC, 60Hz
Power consumption	12W
Dimensions (width x height x depth)	290 × 36 × 180(mm)
Weight	0.88 kg
Operating temperature	41°F (5°C) to 95°F (35°C)
Operating humidity	Less than 80% (no condensation)
HDMI™ output HDMI™ jack x 1	Video: 480i, 480p, 720p 1080i, 1080p, 1080p/24F / Audio
Audio output (Coaxial digital) RCA jack x 1	0.5Vp-p (75Ω)
USB terminal x 1	5V ⎓ 500mA
LAN terminal	100BASE-T

NOTE Product specifications, configurations, prices, system/component/options availability are all subject to change without notice.

Disclaimer

1080p capable display required for viewing in 1080p. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device. While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings. Feature performance may vary and may also require an always-on broadband Internet connection. Firmware update and additional bandwidth may be required. BD-Live™ requires connection of a USB device of at least 1 GB (sold separately) to USB port. Performance of interactive features may vary due to disc design or content, and may also require an always-on broadband Internet connection. Firmware update may be required for some interactive features. Some features may require additional bandwidth. Third party Internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to third party restrictions. Toshiba makes no representations or warranties about these services, which may require the creation of a user account through a computer with Internet access. Third party Internet service users may incur one-time and/or recurring charges. For Dolby® TrueHD and DTS-HD® Master Audio | Essential™ playback, content encoded in Dolby® TrueHD and DTS-HD® Master Audio | Essential™ format required. Viewing 1080p/24 fps output requires 1080p/24 fps encoded content and an HD display capable of accepting a 1080p/24Hz signal. Supported file types: JPEG, MP3, WMA, and AVCHD. Some recordable media, cards or files may not be supported. Product specifications, information and availability are all subject to change without notice.

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gcc libgcc	4.5.1	http://gcc.gnu.org/	GPLv3.txt and gcc-exception.txt (GPLv3 with GCC Runtime Library Exception)
gcc libstdc++	4.5.1	http://gcc.gnu.org/	GPLv3.txt and gcc-exception.txt (GPLv3 with GCC Runtime Library Exception)
glibc	2.12.2	http://www.gnu.org/software/libc/	LGPLv2.1

OSS name	*OSS version*	*OSS project URL*	*OSS license*
SquashFS	4.1	http://squashfs.sourceforge.net/	GPLv2
iputils	s20101006	http://www.skbuff.net/iputils/	GPLv2
udhcpc	0.9.8cvs20050303-3	http://udhcp.sourcearchive.com/downloads/0.9.8cvs20050303-3/	GPLv2
net-tools	1.60	http://www.linuxfromscratch.org/blfs/view/6.3/basicnet/net-tools.html	GPLv2
sysvinit	2.88dsf	http://savannah.nongnu.org/projects/sysvinit	GPLv2
module-init-tools	3.12	https://modules.wiki.kernel.org/index.php/Main_Page	GPLv2
util-linux-ng	2.18	http://userweb.kernel.org/~kzak/util-linux-ng/	GPLv2
procps (ps, top)	3.2.8	http://procps.sourceforge.net/index.html	LGPLv2
psmisc	22.13	http://psmisc.sourceforge.net/	GPLv2
coreutils	6.9	http://www.gnu.org/software/coreutils/	GPLv2
gawk	3.1.5	http://www.gnu.org/software/gawk/	GPLv2
grep	2.5.1a	http://www.gnu.org/software/grep/	GPLv2
findutils	4.2.31	http://www.gnu.org/software/findutils/	GPLv2
bash	3.2.48	http://www.gnu.org/software/bash/	GPLv2
tar	1.17	http://www.gnu.org/software/tar/	GPLv2
sed	4.1.5	http://www.gnu.org/software/sed/	GPLv2
gzip	1.3.12	http://www.gnu.org/software/gzip/	GPLv2
inetutils	1.4.2	http://www.gnu.org/software/inetutils/	GPLv2
ncurses	5.7	http://www.gnu.org/software/ncurses/	ncurses.txt
gdb (gdbserver)	6.6	http://www.gnu.org/software/gdb/	GPLv2
Das U-Boot	2009.08	http://www.denx.de/wiki/U-Boot/WebHome	GPLv2
International Components for Unicode	3.2.0	http://www.icu-project.org/index.html	ICULicense.txt
OpenSSL	0.9.8x	http://www.openssl.org/	openssl.txt
dibbler	0.8.0	http://klub.com.pl/dhcpv6/	GPLv2
FreeType	2.3.9	http://www.freetype.org/	FreeType.txt
Expat	2.0.1	http://expat.sourceforge.net/	expat.txt
libcurl	7.21.7	http://curl.haxx.se/	libcurl.txt
libjpeg	jpeg-7	http://www.ijg.org/	libjpeg-7.txt
c-ares	1.7.4	http://c-ares.haxx.se/	c-arse.txt

OSS name	*OSS version*	*OSS project URL*	*OSS license*
mtd-utils	1.2.0	http://www.linux-mtd.infradead.org/index.html	GPLv2
libmtp	0.3.6	http://libmtp.sourceforge.net	LGPLv2.1
libusb	1.0.2	http://libusb.wiki.sourceforge.net	LGPLv2.1
libusb-compat	0.1.2	http://libusb.wiki.sourceforge.net/LibusbCompat0.1	LGPLv2.1
wpa_supplicant	0.8.x	http://hostap.epitest.fi/wpa_supplicant/	WPASupplicant.txt
libnl	1.0-pre7	http://www.linuxfromscratch.org/blfs/view/svn/basicnet/libnl.html	GPLv2
Wireless Tools	29	http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html	GPLv2
DirectFB	1.2.7	http://www.directfb.org	LGPLv2.1
Fusion	8.2.0	http://www.directfb.org	GPLv2
SaWMan	1.4.0	http://www.directfb.org	LGPLv2.1
libpng	1.2.35	http://www.libpng.org/pub/png/libpng.html	libpng.txt
libxml2	2.7.6	http://xmlsoft.org/	libxml.txt (MIT License)
tinyxml	2.5.3	http://sourceforge.net/projects/tinyxml/	tinyxml.txt
David M. Gay's dtoa and strtod		http://netlib2.cs.utk.edu/fp/dtoa.c	DMG's dtoa and strtod.txt
Bison generated parser	2.3	http://www.gnu.org/software/bison/	bison_parser.txt
Doug Lea's malloc		ftp://g.oswego.edu/pub/misc/malloc.c http://gee.cs.oswego.edu/dl/html/malloc.html	dmalloc.txt
EMX sprintf and scanf			EMX_sprintf_sscanf.txt
JSON_Parser	1.0	http://www.json.org/	JSON_Parser.txt
xz	5.0.3	http://tukaani.org/xz/	
cpio	2.8	http://www.gnu.org/software/cpio/	
Qt	4.7.0	http://qt.nokia.com/products	LGPLv2.1
xmlrpc-c	1.06.38	http://xmlrpc-c.sourceforge.net/	xmlrpc-c.txt
gSOAP	2.7.12	http://www.cs.fsu.edu/~englen/soap.html	gSOAP.txt (gSOAP Public License 1.3a)
SQLite	3.6.22	http://www.sqlite.org/	sqlite.txt (public domain)
mcr-tcpdump	4.3.0	http://www.tcpdump.org/	BSD
Lua interpreter	5.1.3	http://www.lua.org/license.html#5	lua.txt (MIT License)

OSS name	*OSS version*	*OSS project URL*	*OSS license*
zziplib	0.13.58	http://zziplib.sourceforge.net/	zziplib.txt
libavformat	52.31.0	http://ffmpeg.org/	LGPLv2
libavutil	49.15.0	http://ffmpeg.org/	LGPLv2
libavcodec	52.20.0	http://ffmpeg.org/	LGPLv2
zlib	1.2.3	http://www.zlib.net/	zlib.txt
lighttpd	1.4.29	http://www.lighttpd.net/	BSD License
nmbd	2.2.12	http://www.samba.org/	GPLv2
ntp	4.2.6	www.ntp.org	
live555	2011.06.12	http://www.live555.com/	LGPL V2

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